

USER MANUAL for USB2.0 Data Link/Network

USB2.0 Data Link

Introduction

Congratulations on your purchase of PCLinq2 Hi-Speed USB Bridge Cable! PCLinq2 is your Hi-Speed USB 2.0 solution to peer-to-peer network file sharing via the USB port. The PCLinq2 cable provides true plug-n-play capability while transferring files at greater speed than traditional USB or other legacy port file transfer products. Hi-Speed USB 2.0 solutions offer up to 40 times the speed compared to normal full-speed USB 1.1 products.

PCLinq2 also provides a File Transfer program that is similar to Windows Program Manager so you can easily drag-and-drop files or create folders in your local computer or in the linked remote PC. Just plug in the cable, run the PCLinq2 program and instantly transfer or copy files at high speed.

The PCLinq2 Hi-Speed USB Bridge Cable is highly suitable for mobile computer use and SOHO environment.

Features & Specifications

- Easy File Sharing and Data Transfer between 2 or 3 PCs via USB port
- Suitable for Mobile PC and SOHO environment
- Single chip ASIC Hi-Speed USB host to host communication
- Dual data buffer supports two-way data transfer
- Hi-Speed Performance with data transfer rate of over 15Mbytes/sec
- Full Compliance with the Universal Serial Bus Specification v1.1 and v2.0
- Bus Powered from either USB port– no separate power required
- Advanced Power Management Mechanism includes Suspend-Resume and Remote Wake-up Functions

System Requirements

- Windows 98, ME, 2000, XP or above
- Intel Pentium 133MHz or better based computer
- One standard USB 1.1 or USB 2.0 (recommended) port
- PCLinq2 Hi-Speed USB Bridge-Network Cable
- PCLinq2 Hi-Speed USB Bridge-Network Cable Setup Program

USB2.0 Data-Link

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Running the Setup Program

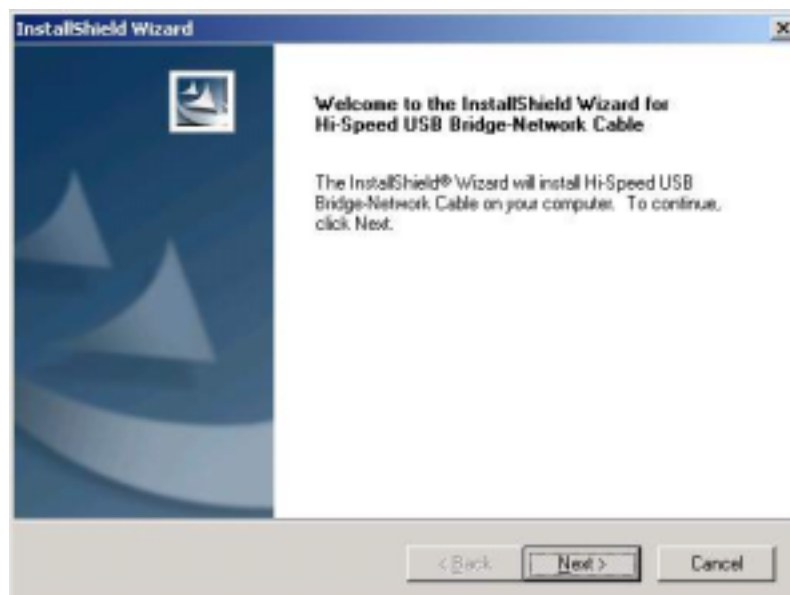
Before you plug-in and use the PCLinq2 Hi-Speed USB Cable for the first time in your computer, you first have to run the SETUP InstallShield program to preload the drivers and programs into your computer. This step is necessary in order for you to use the USB Bridge Cable properly under Windows operating system.

The following steps will show how to install the PCLinq2 Hi-Speed USB Bridge Cable under Windows XP. If you are using other Windows OS versions, the installation is also the same but the look of the dialogue boxes may be a bit different. This Setup program only supports Windows 98, ME, 2000, and XP.

1. Power on your computer and boot to Windows. Load the PCLinq2 Hi-Speed USB Bridge-Network Cable Driver CD and run the **SETUP.EXE** executable program file. The Setup program will then start to prepare the InstallShield Wizard that will guide you through the rest of the setup process.

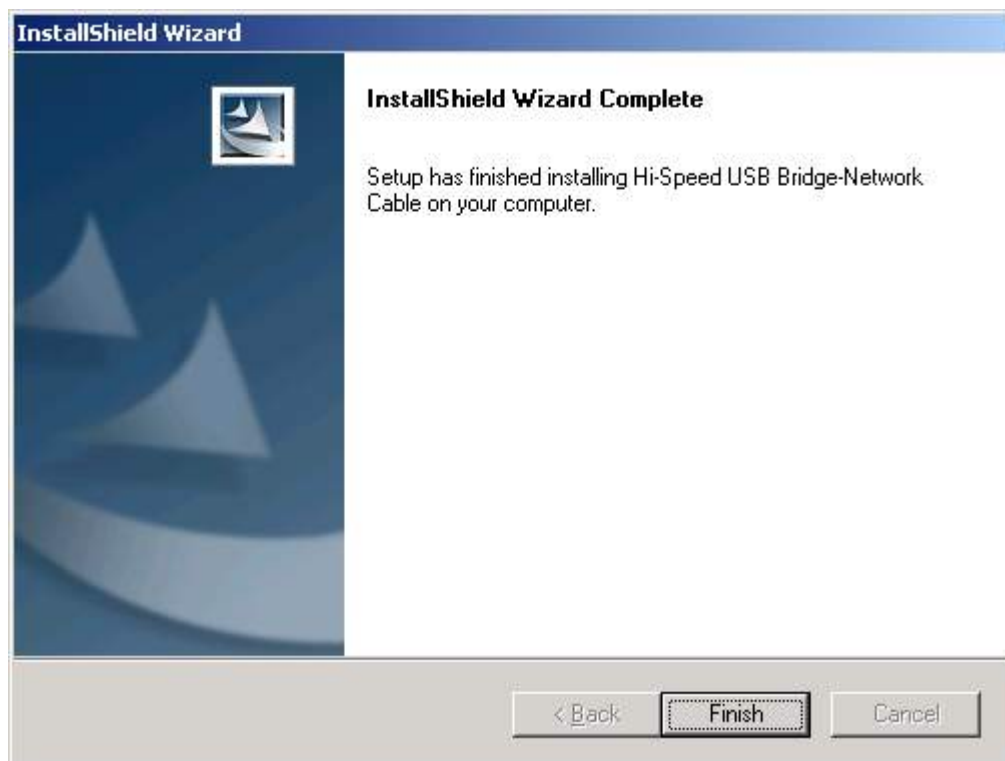


2. The InstallShield Wizard welcome dialog box will then appear to display some information regarding the Setup program. Follow the instructions and click Next to continue.

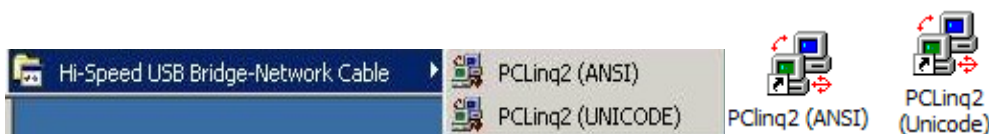



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Wait until Setup has finished installing the PCLinq2 Hi-Speed USB Bridge-Network Cable Driver. When it prompts you that installation is complete, click **Finish** to end.



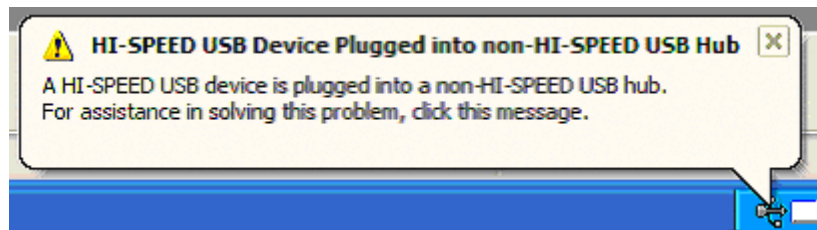
3. After installation is complete, click on the Program Files and check if the PCLinq2 Hi-Speed USB Bridge-Network Cable program folder was created. For Windows XP and 2000, there are two programs provided: ANSI mode and Unicode mode. For Windows 98 and ME, only the ANSI mode is provided. Check also your Desktop screen if there are shortcuts created for the PCLinq2 programs.



4. Now locate the USB port of your computer and plug in the PCLinq2 Hi-Speed USB Bridge-Network Cable. If your computer has a Hi-Speed USB 2.0 port, plug the cable into this port. The USB port usually has the imprinted  symbol.

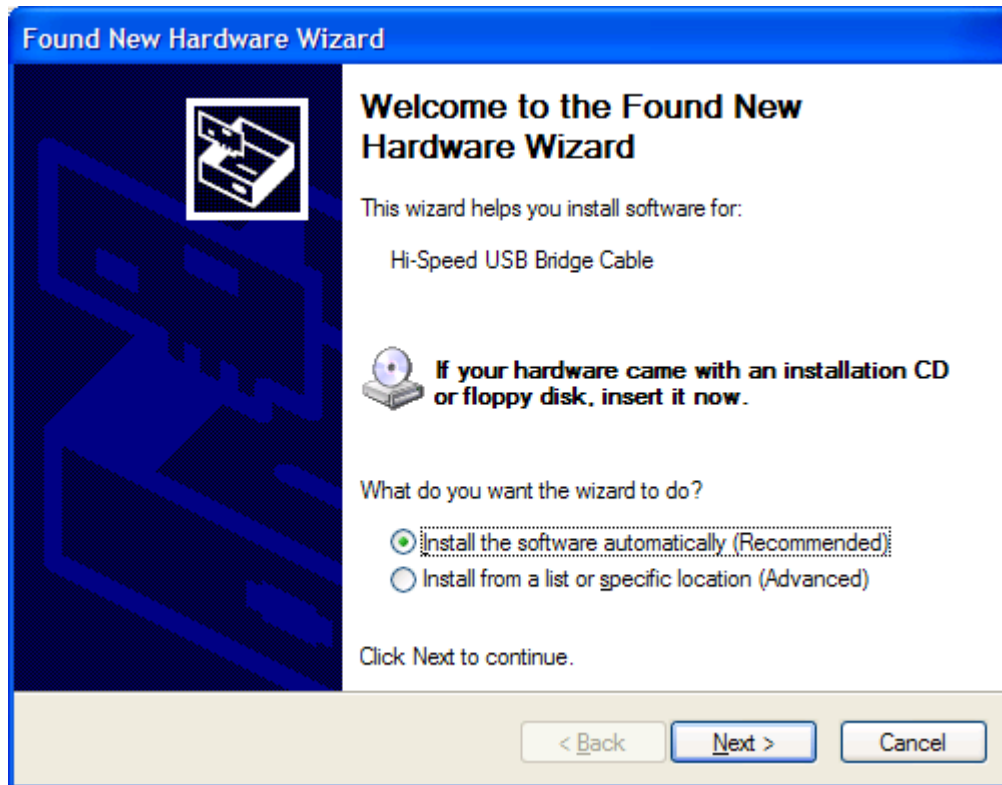
***Note:** If you plug the cable on a non-Hi-Speed USB port, Windows will show an alert message telling you that it is plugged into a non-Hi-Speed USB hub. You can still continue to use the PCLinq2 USB bridge cable but it will run at a reduced speed. Windows will recommend you to add a Hi-Speed USB host controller to your computer to obtain maximum performance.*

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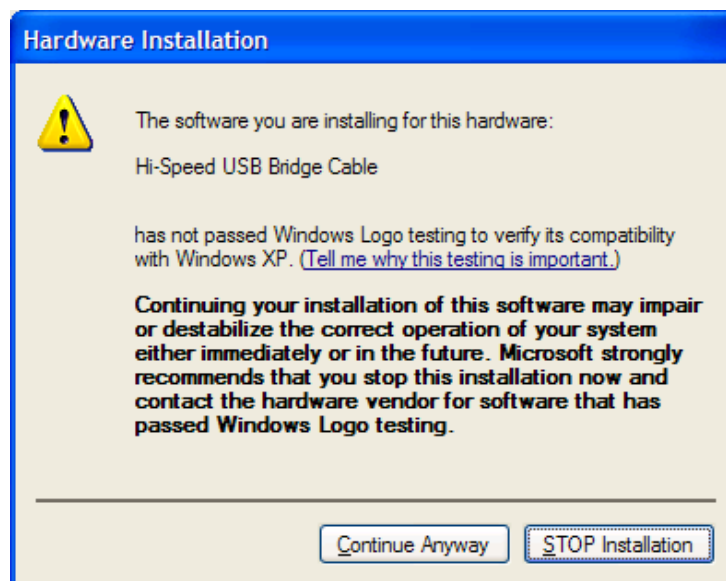


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5. Wait till Windows detects the Hi-Speed USB Bridge Cable and prompts you for the device driver location. If prompted, select to install the software automatically (Recommended) and click **Next** to continue.



6. Windows will then detect the preloaded driver. Before Windows installs the driver, it may prompt you that this device driver (Hi-Speed USB Bridge Cable) has not yet passed Windows XP Logo compatibility. Click **Continue Anyway**.

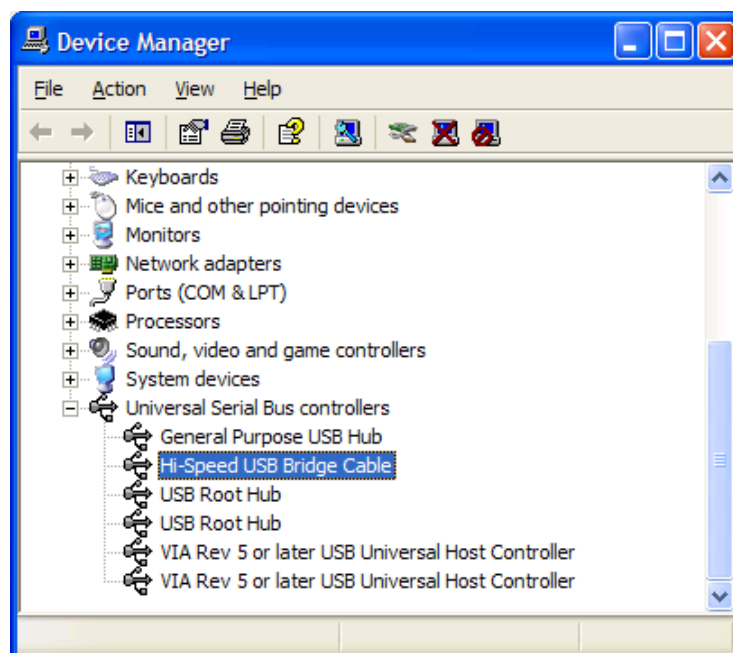


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- Windows will then start to install the driver for the USB-USB Bridge Cable2.0
Once installation is complete, Windows will prompt you that it has finished. Click **Finish** to continue.



- You can also verify the driver installation under Device Manager. Right-click on **My Computer**. Then click **Hardware-Device Manager**. Click on Universal Serial Bus controllers and check if there is the **Hi-Speed USB Bridge Cable**.



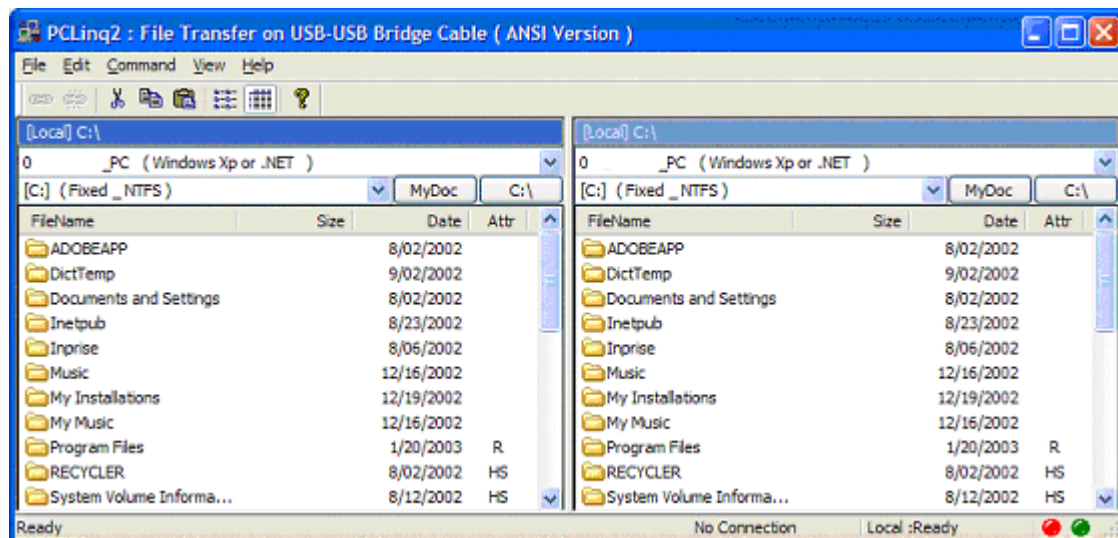
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Running the PCLinq2 Program

The PCLinq2 Hi-Speed USB Bridge Cable allows you to easily link two computers by plugging each end of the cable into the USB port of both computers. Before you can start using the PCLinq2 program, you need first to run Setup program on both computers and install the bridge cable as mentioned in the previous section.



PCLinq2 is the application program used to control the file sharing and data transfer of the linked computers (also known as the local PC and the remote PC). After you have successfully completed the Setup program and installed the PCLinq2 bridge cable, you simply double-click on the PCLinq2 shortcut found on your desktop screen. The PCLinq2 File Transfer program will appear as follows:



With PCLinq2, you can control both the local and remote PCs and do the following:

- (1) Display files/folders
- (2) Open files/folders

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- (3) Create files/folders
- (4) Delete files/folders
- (5) Copy files/folders
- (6) Move files/folders
- (7) Change file/folder names
- (8) Multiple Cable Select – if there are three computers linked together using two PCLinq2 bridge cable (see Figure below). PCLinq2 can allow you to control two computers (A-to-B or B-to-C) at a time.

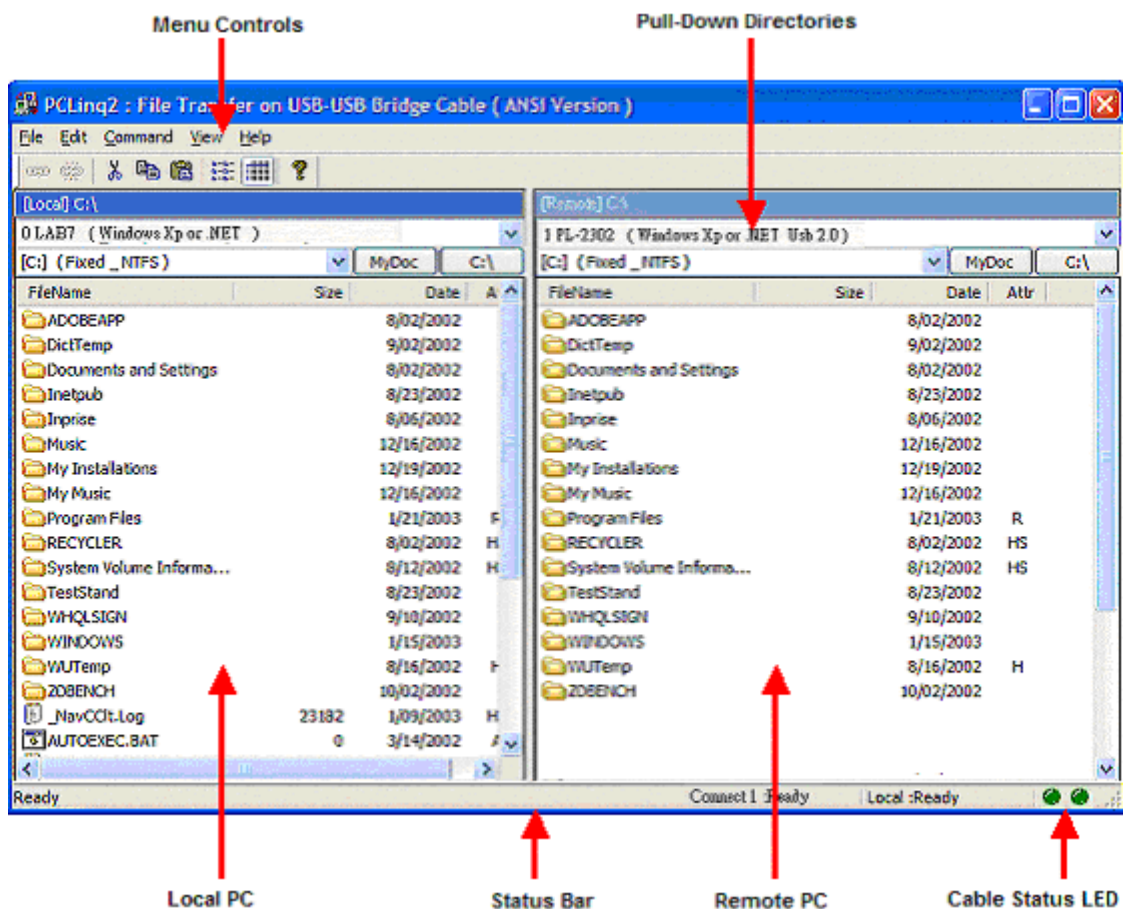


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To start using PCLinq2:

1. Run Setup program on both (local and remote) computers.
2. Plug the one end of the PCLinq2 Hi-Speed USB Bridge cable into the USB port of one computer and the other end into the USB port of the other computer.
3. Wait for Windows to detect the cable on each computer and check if it is properly installed.
4. Double-click on the PCLinq2 program. It is important that you use the same program mode for each computer. If you are using ANSI mode, then both computers should be running the ANSI mode program. Check the Status LED on the bottom right of the program dialog box if it is ready or not. A green LED signifies a ready status while a red LED means not ready or not found. Make sure that the program shows two green LEDs to indicate a linked connection.

Note: The PCLinq2 Unicode program is only available under Windows 2000 and XP. The PCLinq2 ANSI program is available for all Windows OS versions.



5. Once a connection has been established, you simply drag-and-drop the files or folders you want to transfer to the other computer. You can change disk drives

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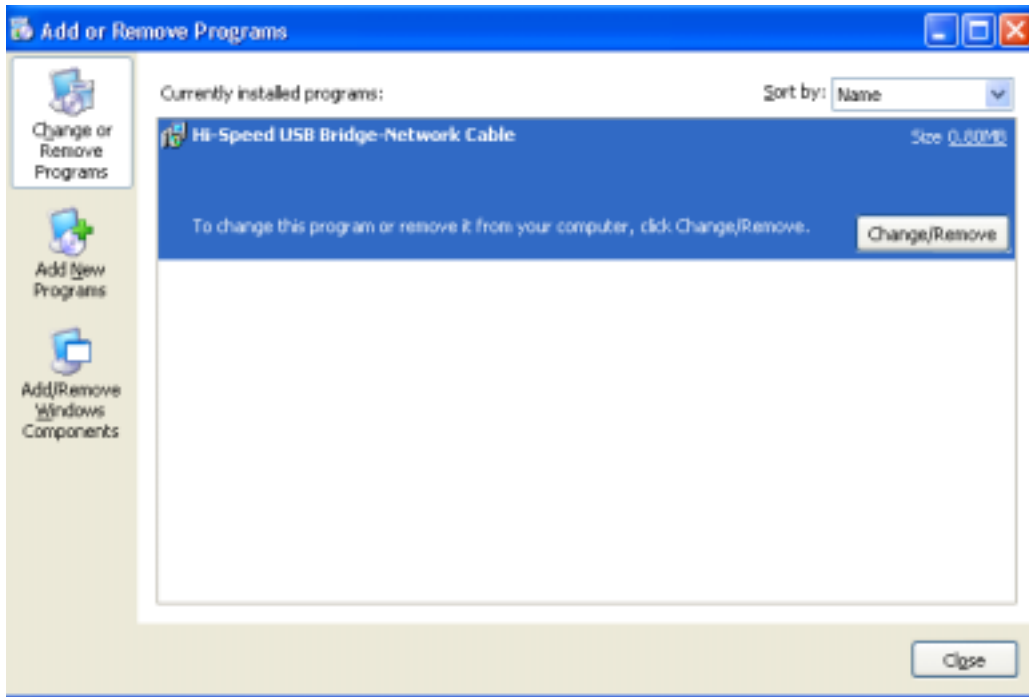
or directories but clicking on the pull-down directory menu. Use the File menu for other functions of the program.

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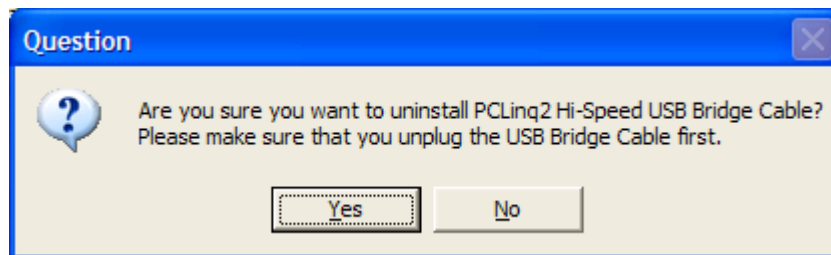
Uninstalling the PCLinq2 Bridge Cable

It is easy to uninstall the PCLinq2 Hi-Speed USB Bridge Cable driver.

1. Make sure to first close all PCLinq2 programs and unplug the USB Bridge cable.
2. Go to Control Panel and double-click on Add or Remove Programs.
3. Look for the PCLinq2 Hi-Speed USB Bridge Cable and click Change/Remove button.



4. The Setup program will prompt you whether you are sure to uninstall or not. Make sure that you have unplugged the USB Bridge cable and click Yes to continue.



5. The Setup program will then start to uninstall the PCLinq2 Hi-Speed USB Bridge Cable driver. Wait for Setup to complete uninstallation.
6. After Setup has completely uninstalled the driver and programs, it will prompt you to restart Windows. It is recommended that you restart your computer.

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Bridge-Network Cable

Overview

The USB Networking Cable provides a quick and easy solution to network up to 17 USB computers via hot Plug & Play technology without adding any network interface cards. It is suitable for small offices, home offices, mobile users, and network gamers. With the USB Network Bridge Cable, users can play multi-player games, share files, printers, peripheral equipment, and more.

Features

- USB host to host communication
- Single cable solution for network communication
- Standard Windows Explorer user interface
- Maximum Data transfer rate: Over 5 Mbps
- Construct USB Network up to 17 PCs
- Sharing resources, such as Printers, CD-ROMs, Modems, Scanners, etc.
- Support TCP/IP, NetBEUI, IPX/SPX protocols
- Full NDIS driver implementation
- No external power needed
- Compliant with USB specification version 1.1&2.0
- USB full and High speed connection
- Hot PnP for easy use
- Suitable for SOHO and mobile network environment

System Requirements

- Windows 98/SE/2000/ME/XP

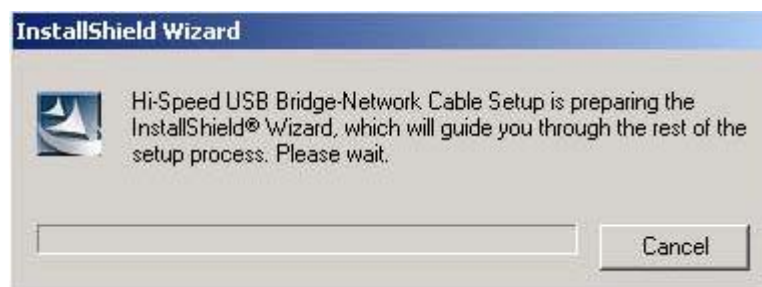
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Running the Setup Program

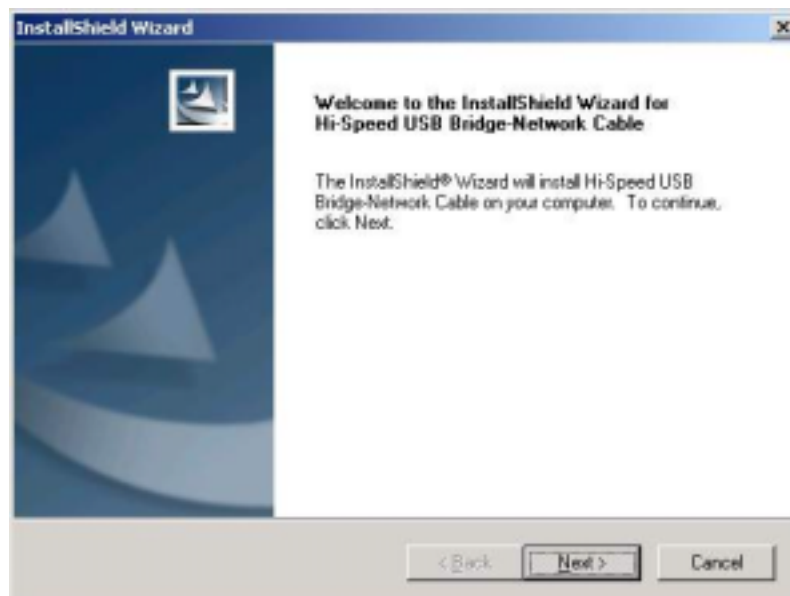
Before you plug-in and use the Hi-Speed USB Bridge-Network Cable for the first time in your computer, you first have to run the SETUP InstallShield program to preload the drivers and programs into your computer. This step is necessary in order for you to use the USB Bridge Cable properly under Windows operating system.

The following steps will show how to install the Hi-Speed USB Bridge-Network Cable under Windows XP. If you are using other Windows OS versions, the installation is also the same but the look of the dialogue boxes may be a bit different. This Setup program only supports Windows 98, ME, 2000, and XP.

1. Power on your computer and boot to Windows. Load the Hi-Speed USB Bridge-Network Cable Driver CD and run the **SETUP.EXE** executable program file. The Setup program will then start to prepare the InstallShield Wizard that will guide you through the rest of the setup process.

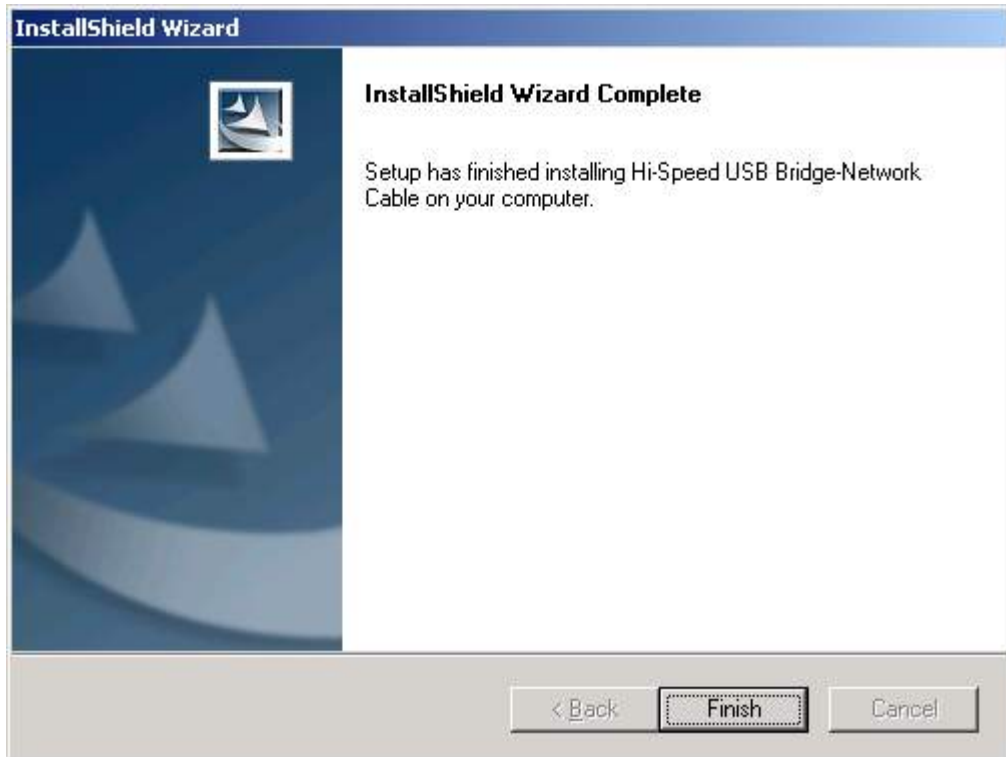



2. The InstallShield Wizard welcome dialog box will then appear to display some information regarding the Setup program. Follow the instructions and click Next to continue.



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3. Wait until Setup has finished installing the Hi-Speed USB Bridge-Network Cable Driver. When it prompts you that installation is complete, click Finish to end.



4. Now locate the USB port of your computer and plug in the PCLinq2 Hi-Speed USB Bridge-Network Cable. If your computer has a Hi-Speed USB 2.0 port, plug the cable into this port. The USB port usually has the imprinted  symbol.

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5. Wait till Windows detects the Hi-Speed USB Bridge-Network Cable and prompts you for the device driver location. If prompted, select to install the software automatically (Recommended) and click **Next** to continue.



6. Windows will then detect the preloaded driver. Before Windows installs the driver, it may prompt you that this device driver (**Hi-Speed USB-USB Network Adapter**) has not yet passed Windows XP Logo compatibility. Click **Continue Anyway**.

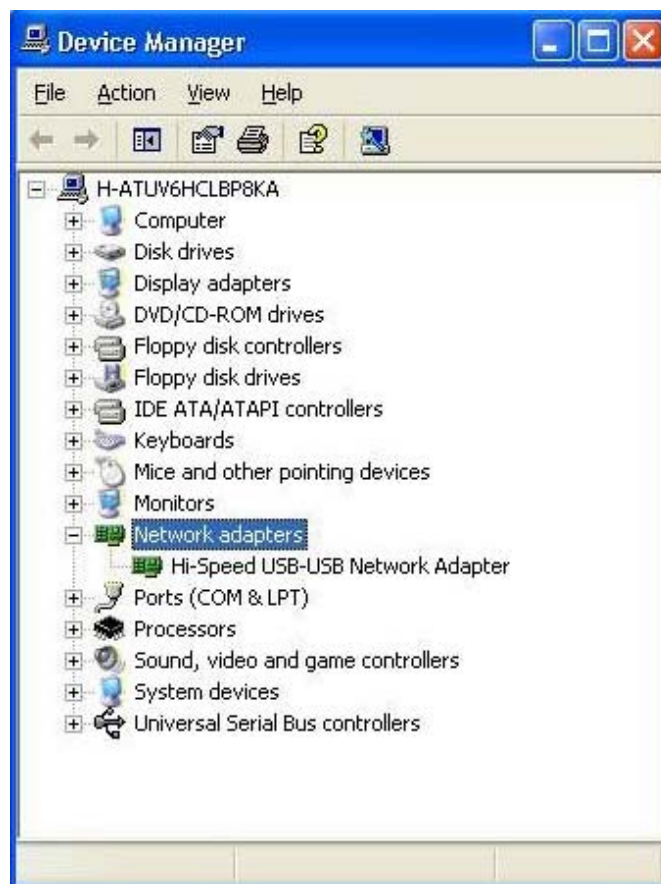


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- Windows will then start to install the driver for the **Hi-Speed USB-USB Network Adapter**. Once installation is complete, Windows will prompt you that it has finished. Click **Finish** to continue.



- You can also verify the driver installation under Device Manager. Right-click on **My Computer**. Then click **Device Manager**. Click on Universal Serial Bus controllers and check if there is the **Hi-Speed USB-USB Network Adapter**.



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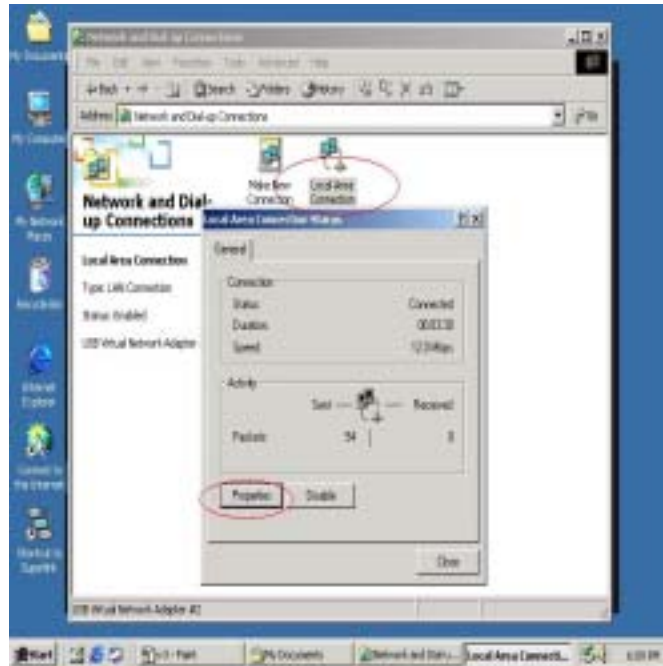
Bridge-Network software application setting

Steps by Steps to enable Internet Connection Sharing on a network connection:

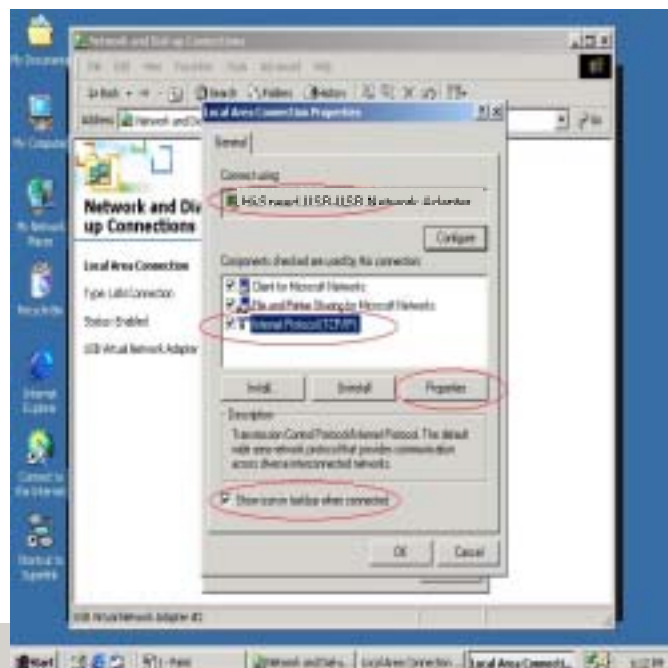
1. Peer-to-Peer File-Sharing with Bridge-Network connection.
2. (For Windows 98/ME/2K/XP, both sides setting are the same)

Manual IP address setting.

(1) Open Network Connections (Click Start, click Control Panel, click Network and Internet Connections, and then click Network Connections).

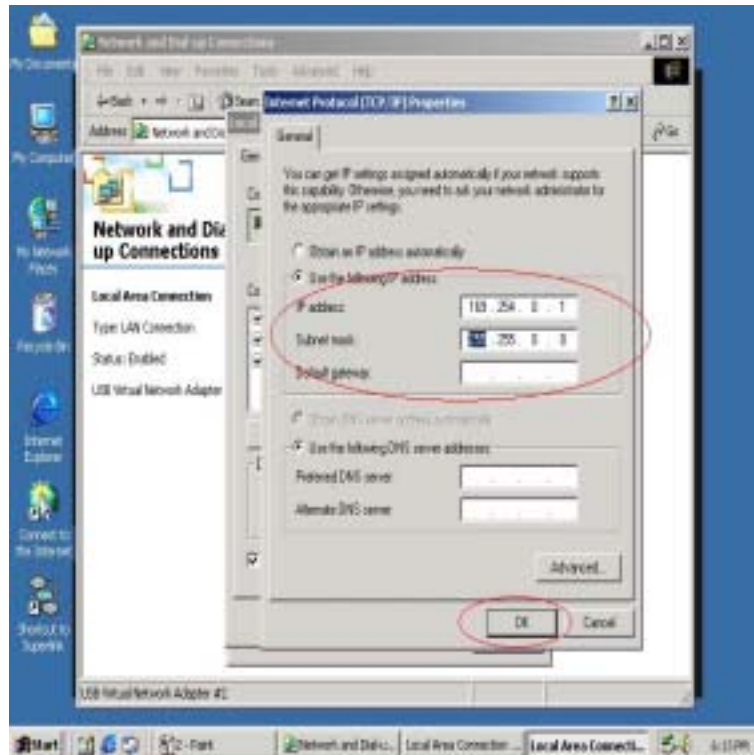


(2) Select "Internet Protocol (TCP/IP) ", and click "Properties".



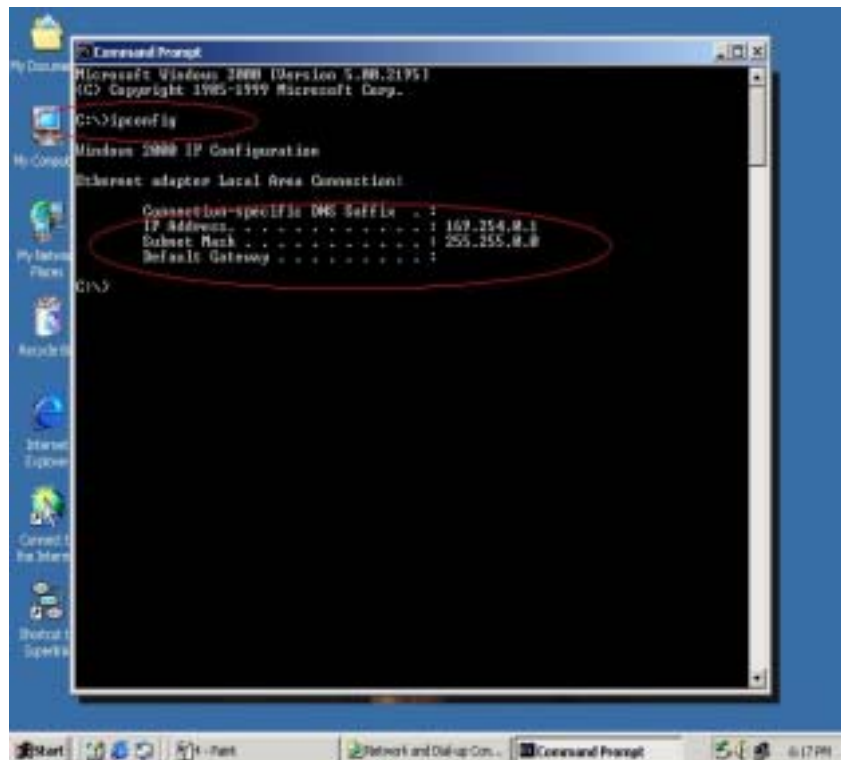
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(3) Fill in driver default IP address value : "169.254.x.x", and click "OK".



(4) User can check the connection information to verify whether IP address is settle done.

(5) Or use windows command prompt : "IPCONFIG" to check the connection status.

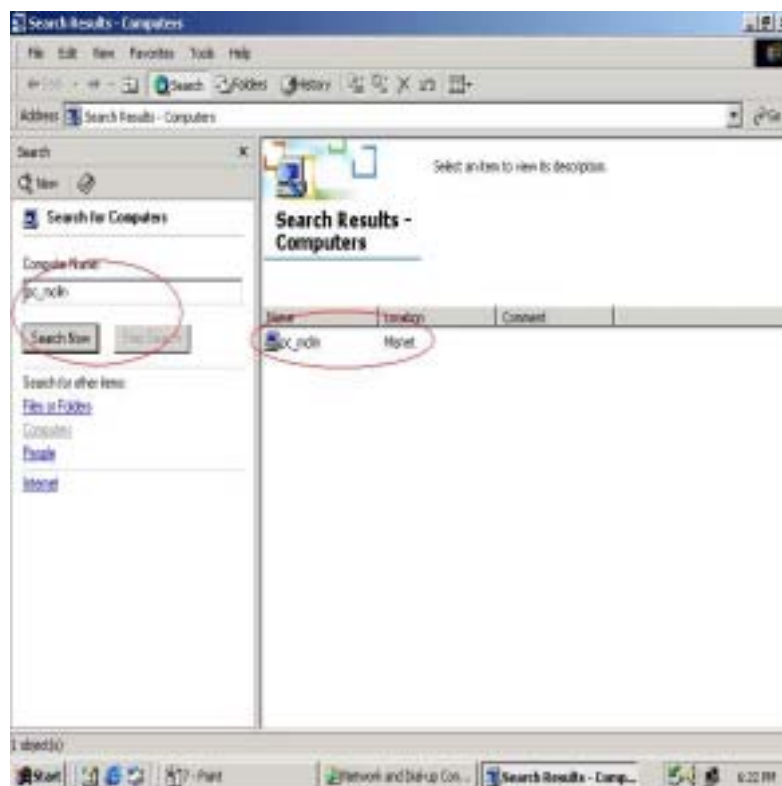


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(6) Another connection of Bridge-Network setting in another computer is the same. User can use “My Network Places : search for computer” to find the connected computer.



Fill in the computer name to search target computer in the network.



Auto-detected IP address setting

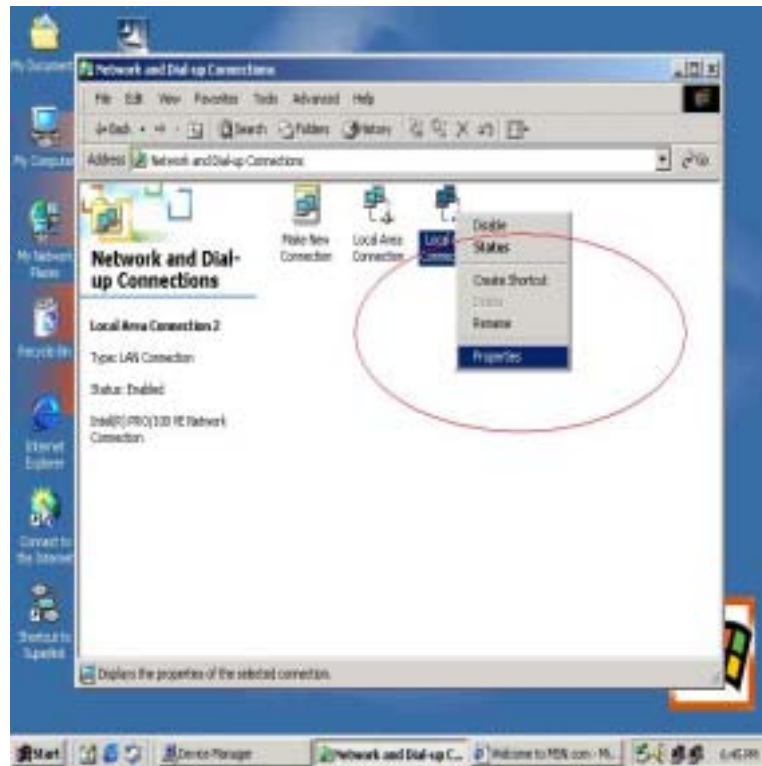
User have to wait for windows O.S. assigning IP address about 2~3 minutes while connected. And the following steps are same as manual IP address setting.

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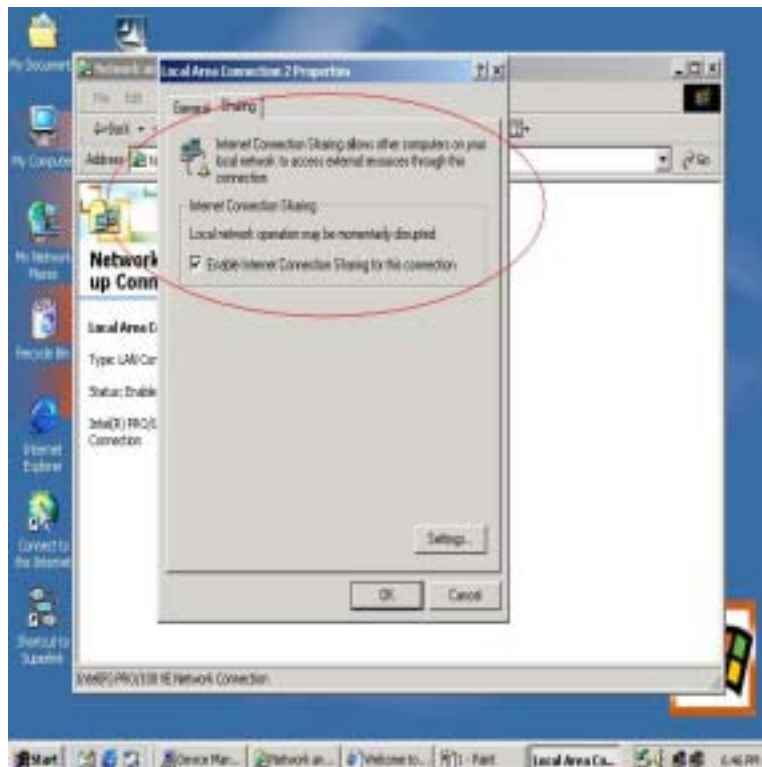
3. Two computers share in internet resource with **Bridge-Network connection**, (For 2K/XP), Setup A-computer which is external internet connection. (LAN or Modem)

(1) Enable the local connection (internet connection) properties to setup internet sharing.

If only one local Area Connection Icon on the folder, you can't found the Sharing selection item..

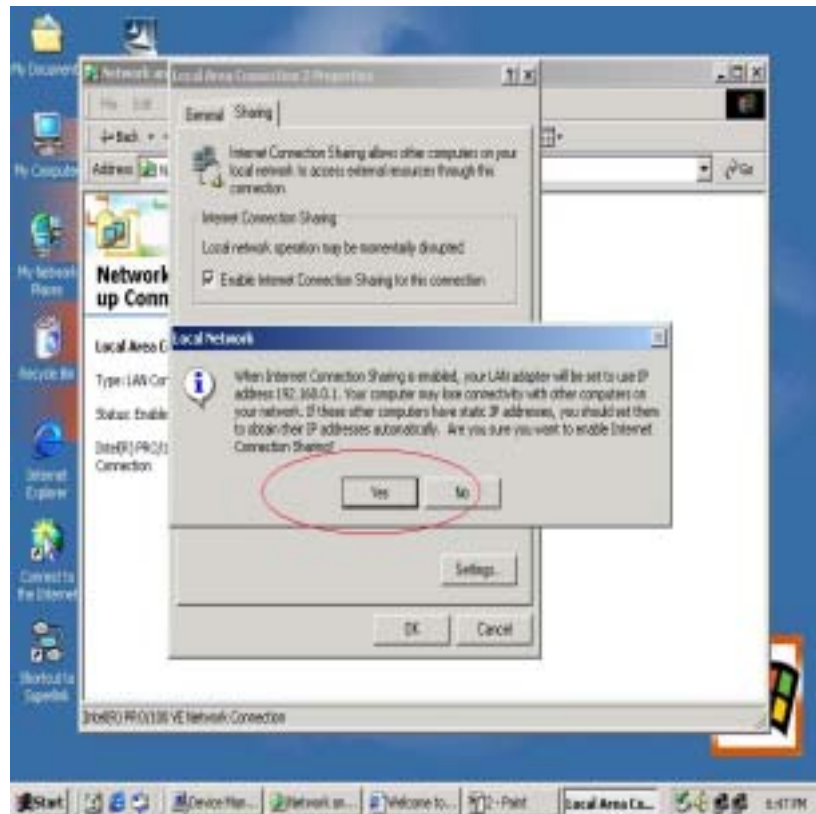


(2) Select "Sharing", and click "Enable Internet Connection Sharing for this connection " and click "OK"

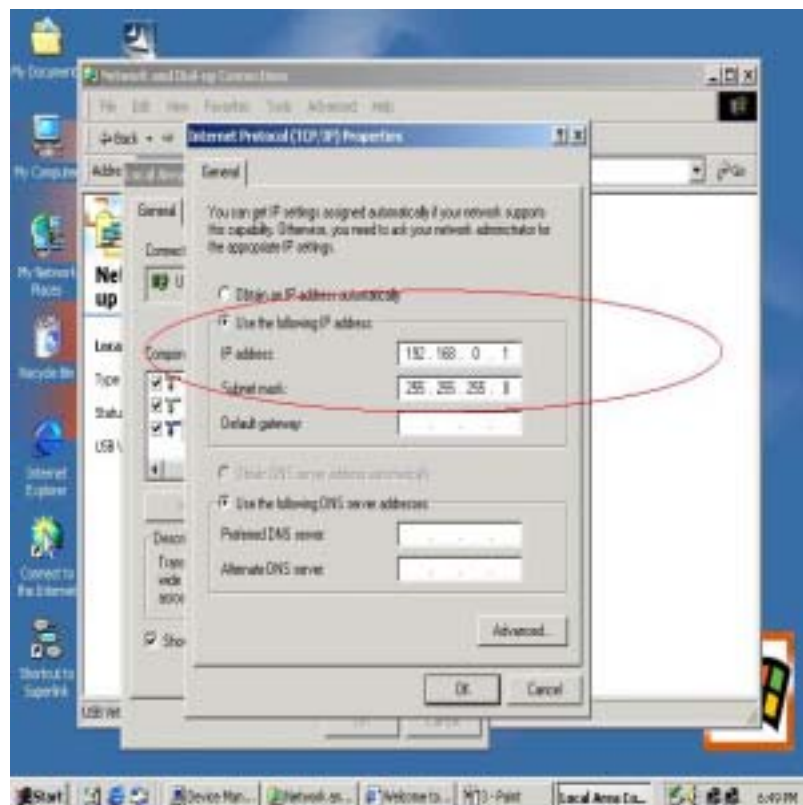


(3) Windows O.S. will force to assign a default IP address (192.168.0.1) for this sharing,

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please just click "OK".



Virtual-Network local connection will be forced to set IP address as below :



Setup B-computer which is only local connection with A-computer.

(1) Enable the local connection (USB Bridge-Network) properties to setup the suitable IP

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address/Mask/gateway :

IP address : 192.168.0.x

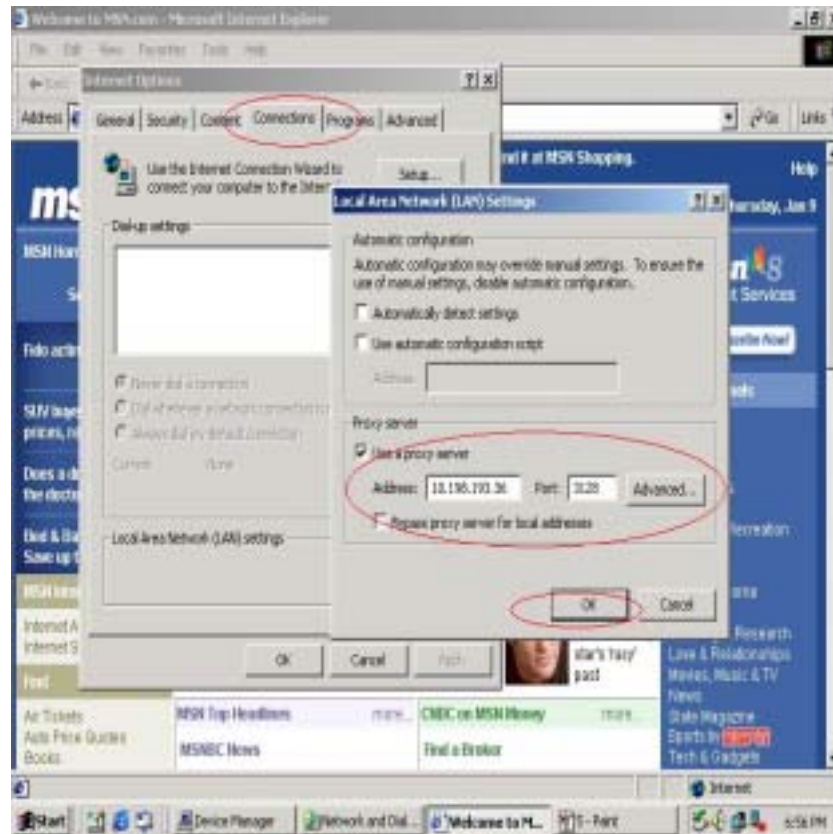
Subnet mask : 255.255.255.0

Default gateway : 192.168.0.1



(2) Also, do not forget to set correct Internet connection value which should be same as A-computer.

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(3) B-computer is available to share the internet resource from A-computer.



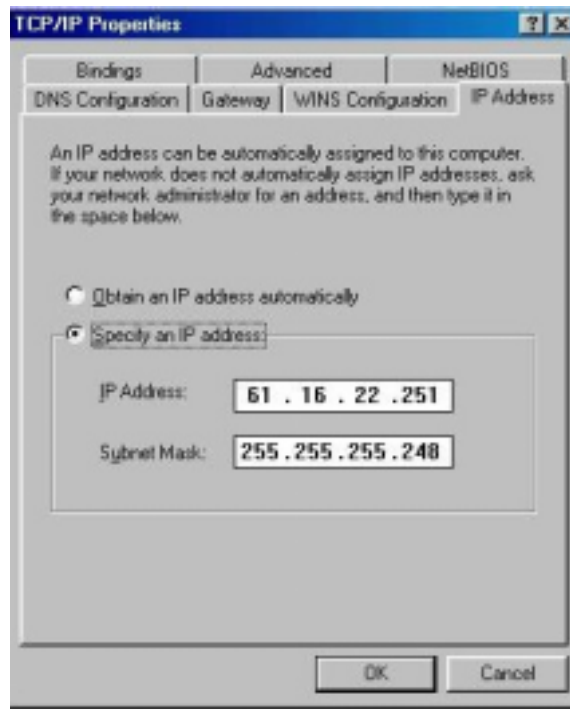
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4. Two computers share in internet resource with Bridge-Network connection(For98SE/ME) , Setup A-computer which is external internet connection. (LAN or Modem)

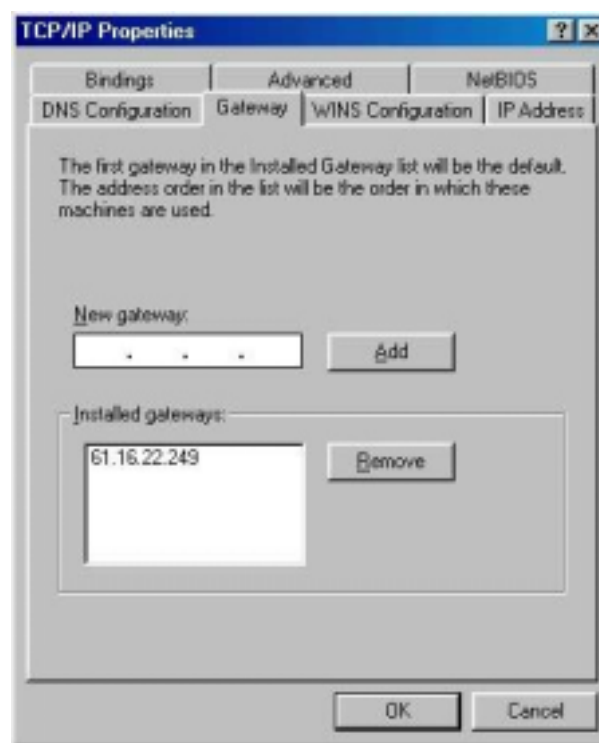
FOR WIN98SE

1. Setup Fixed IP (When you don't have DHCP Server, you only have one Fixed IP)
PS . When you have DHCP Server, you don't setup anymore.

- ◆ Network Neighborhood>Properties>TCP/IP > Properties
- ◆ Setup :IP Address (Please key-in ISP give you)

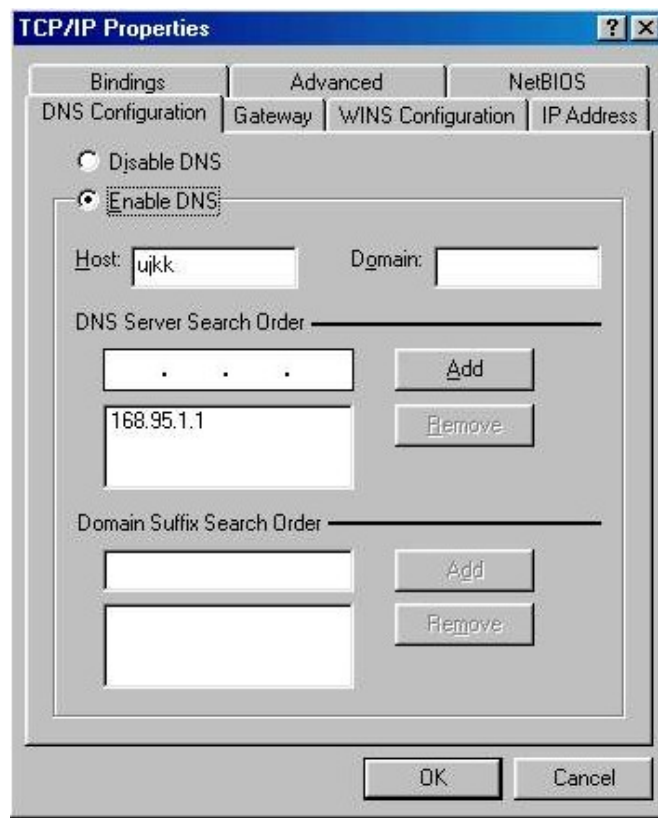


- ◆ Setup : Gateway

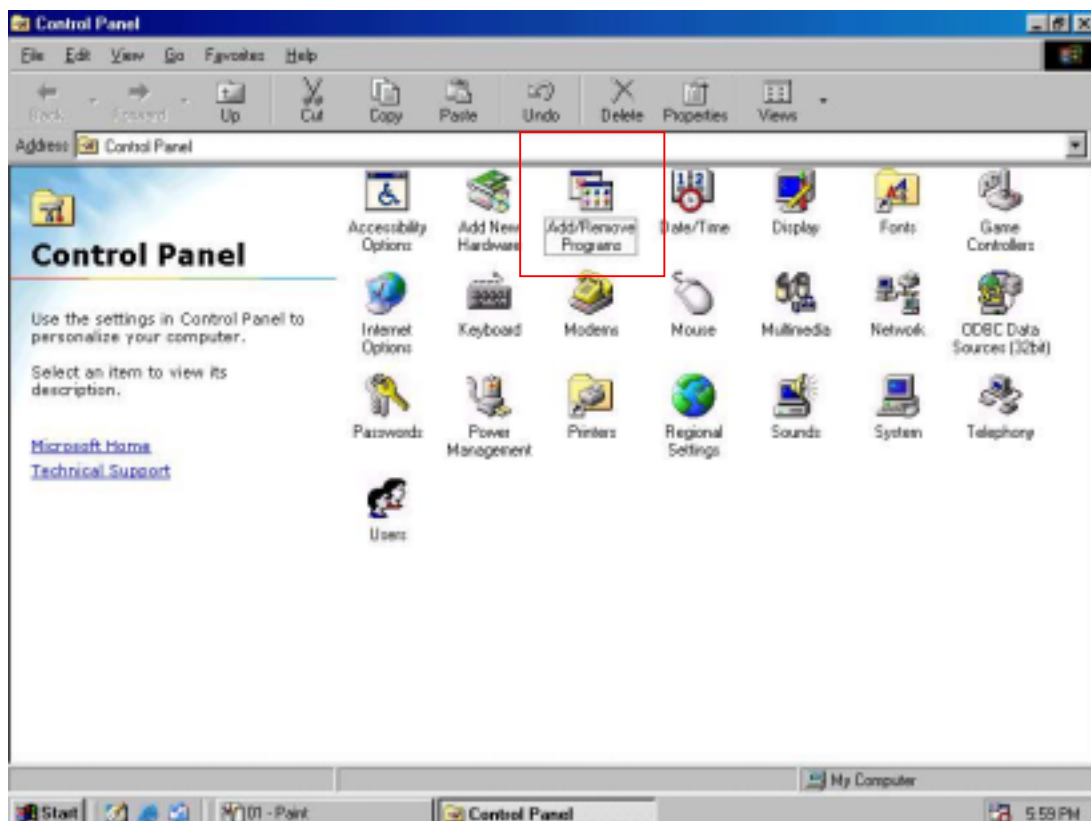


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◆ Setup : DNS(Domain Name Server)

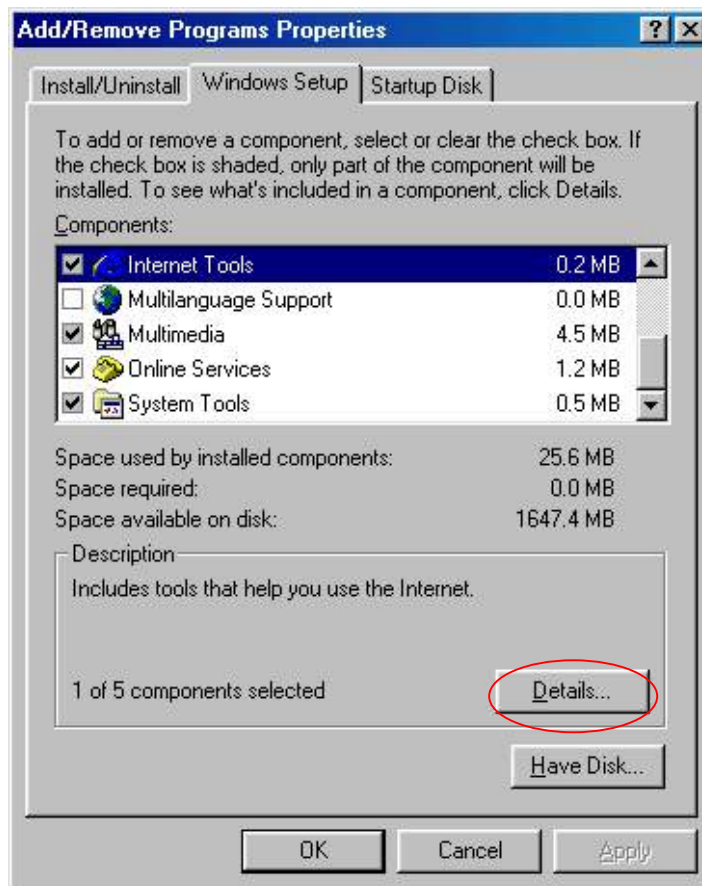


2. Click “Add/Remove programs”



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3. choose "Windows Setup">Internet Tools and Click "Details"



4. choose "Internet Connection Sharing" and click "OK"

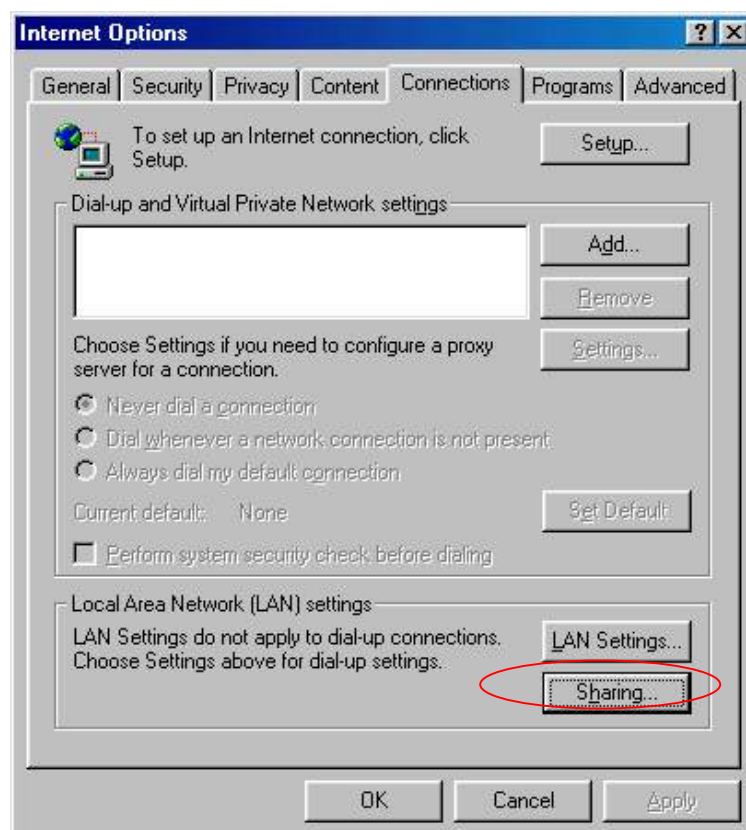


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5. Install "Internet Connection Sharing Wizard", Click "Cancel"

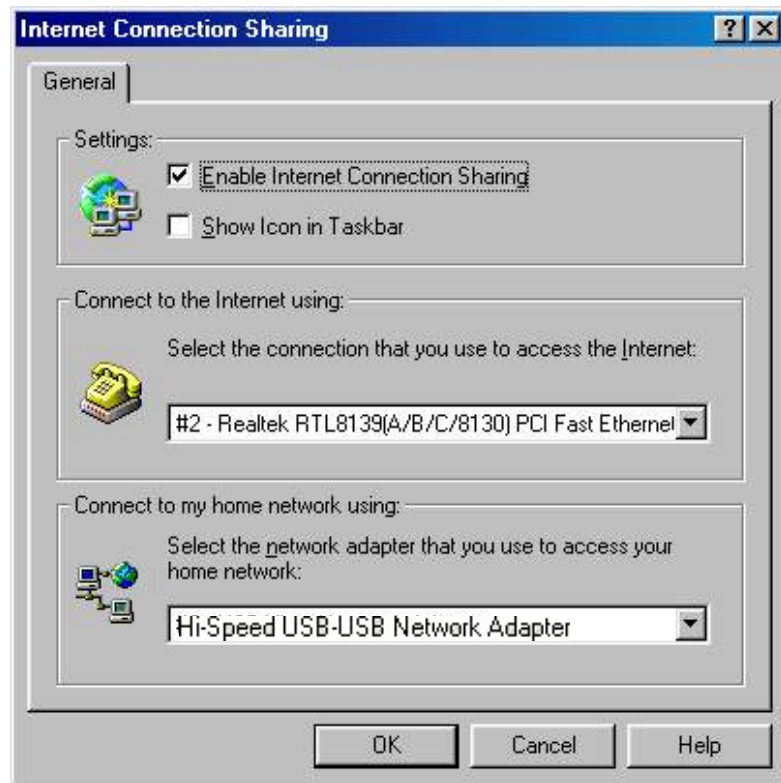


6. Click "start program file Control Panel Internet Options>Connections>"Sharing"

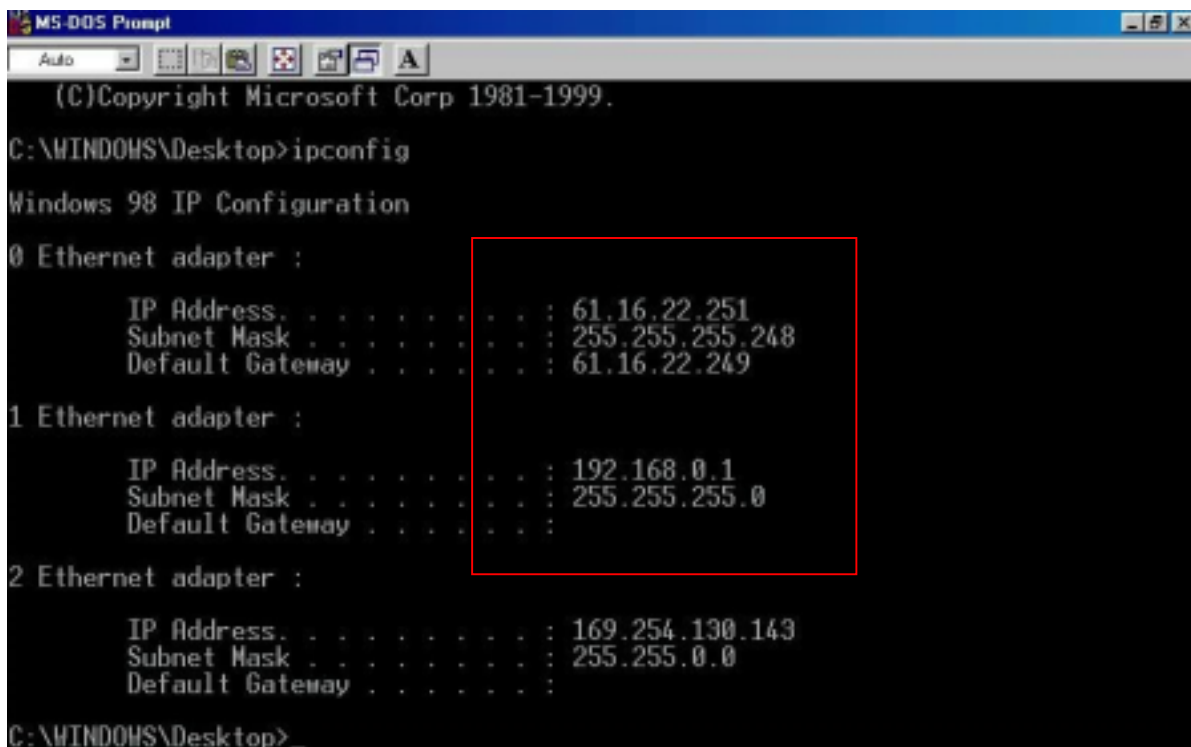


1. Please change "Connect to the Internet using" and "Connect to my home network using"
If you see lot Network Adapter item ,you must choose the latest Network Adapter

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7. Use windows command prompt : "IPCONFIG" to check the connection status.



8. Other PC only connect cable (you don't setup IP Address)

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```
MS-DOS Prompt
Auto
(C)Copyright Microsoft Corp 1981-1999.
C:\WINDOWS\Desktop>ipconfig

Windows IP Configuration

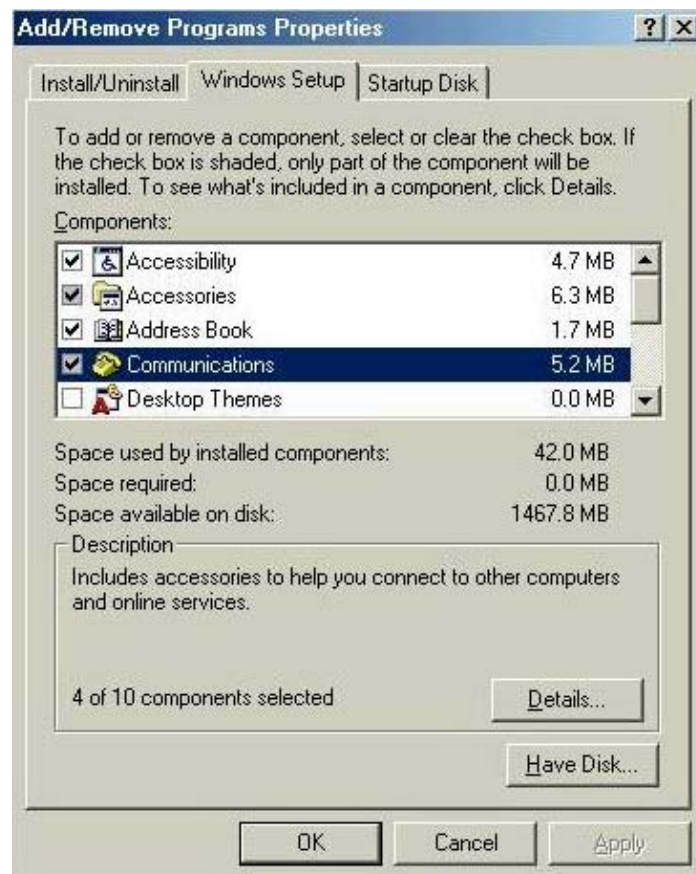
0 Ethernet adapter :

        IP Address. . . . . : 192.168.0.2
        Subnet Mask . . . . . : 255.255.255.0
        Default Gateway . . . . . : 192.168.0.1
```

9. use windows command prompt : "IPCONFIG" to check the connection status.
10. Finish

FOR WINME

1. Please Step by Step: for win98 1~3
2. Click windows Setup > communications >Details
Choose "Internet Connect Sharing" and click "OK"

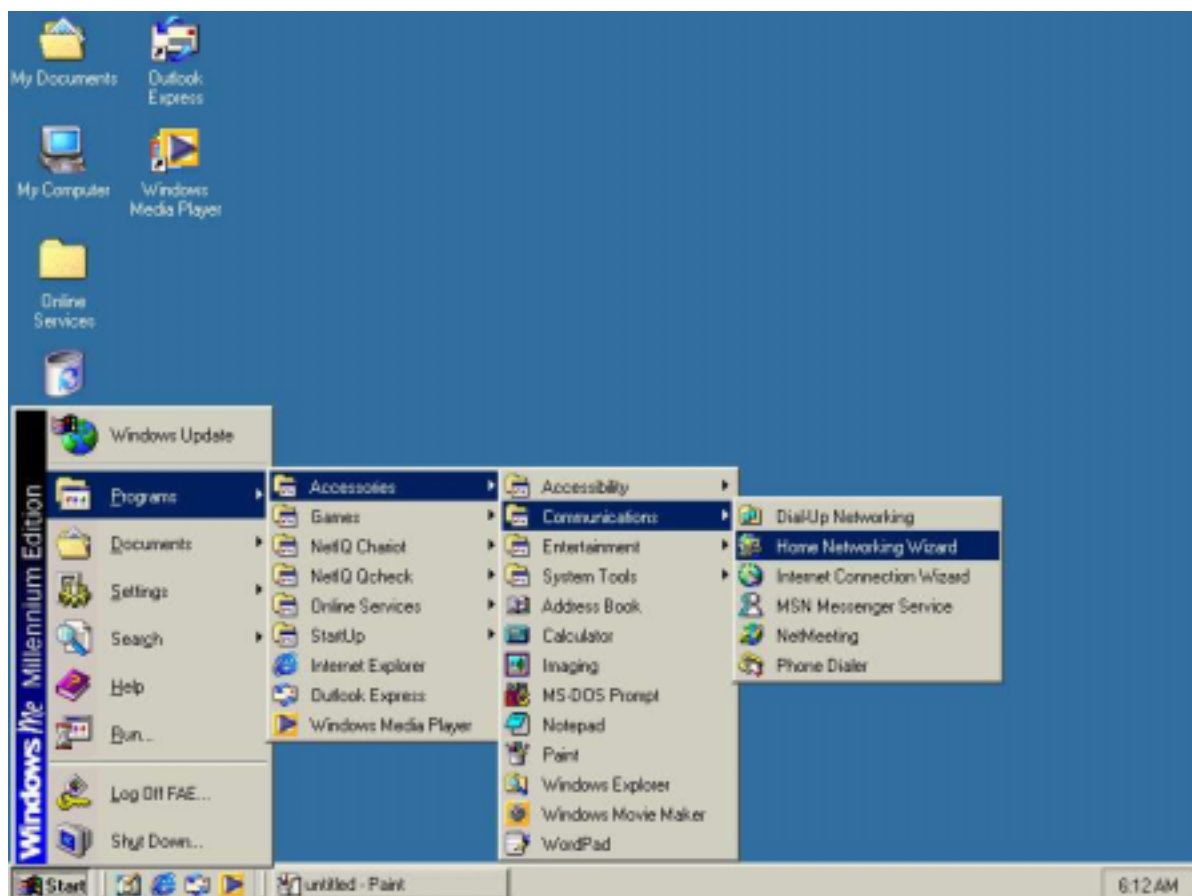


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3. Choose Next or Cancel , Click "Cancel"



4. Click "start programs Accessories connections "Home Networking Wizard"



5. Click "Next" to continue

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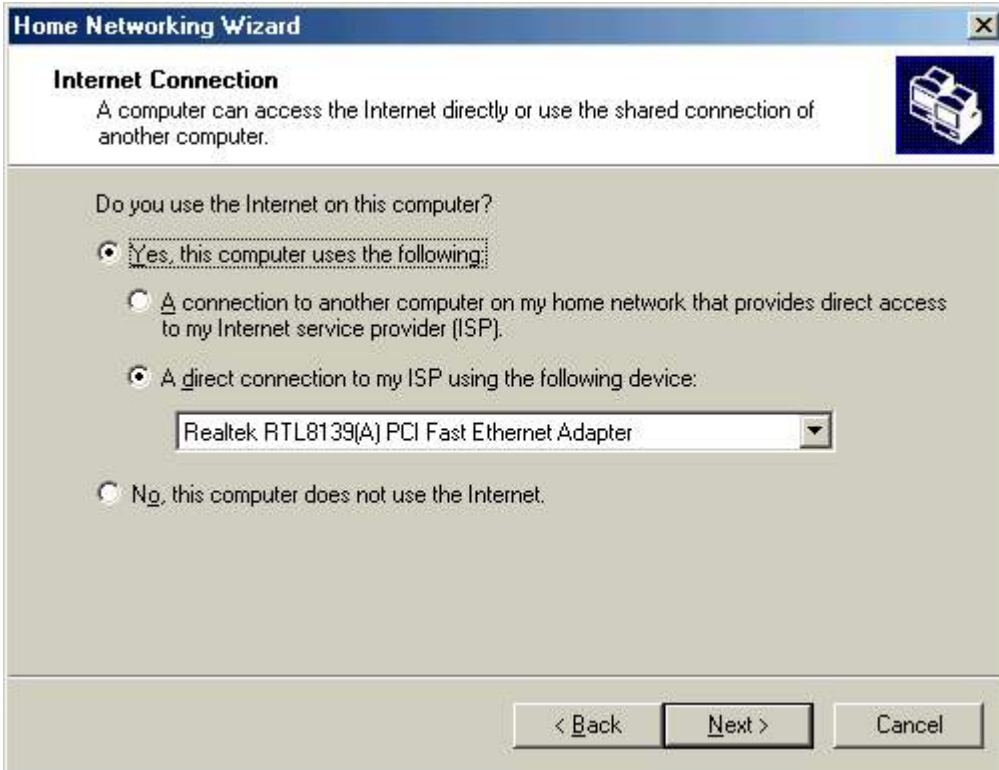


6. Choose "I want to edit my Home Networking setting on this computer". Click "Next"



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7. Click “Next”



The screenshot shows the 'Home Networking Wizard' window with the 'Internet Connection' tab selected. The window title is 'Home Networking Wizard'. Below the title bar, there's a sub-header 'Internet Connection' and a descriptive text: 'A computer can access the Internet directly or use the shared connection of another computer.' To the right of this text is a small icon of a computer with a network cable. The main area contains the question 'Do you use the Internet on this computer?' followed by three radio button options. The first option, 'Yes, this computer uses the following:', is selected. Below it, there are two sub-options: 'A connection to another computer on my home network that provides direct access to my Internet service provider (ISP)' and 'A direct connection to my ISP using the following device:'. The second sub-option is selected, and a dropdown menu below it shows 'Realtek RTL8139(A) PCI Fast Ethernet Adapter'. The third radio button option is 'No, this computer does not use the Internet.' At the bottom right, there are three buttons: '< Back', 'Next >', and 'Cancel'.

Home Networking Wizard

Internet Connection
A computer can access the Internet directly or use the shared connection of another computer.

Do you use the Internet on this computer?

☒ Yes, this computer uses the following:

☐ A connection to another computer on my home network that provides direct access to my Internet service provider (ISP).

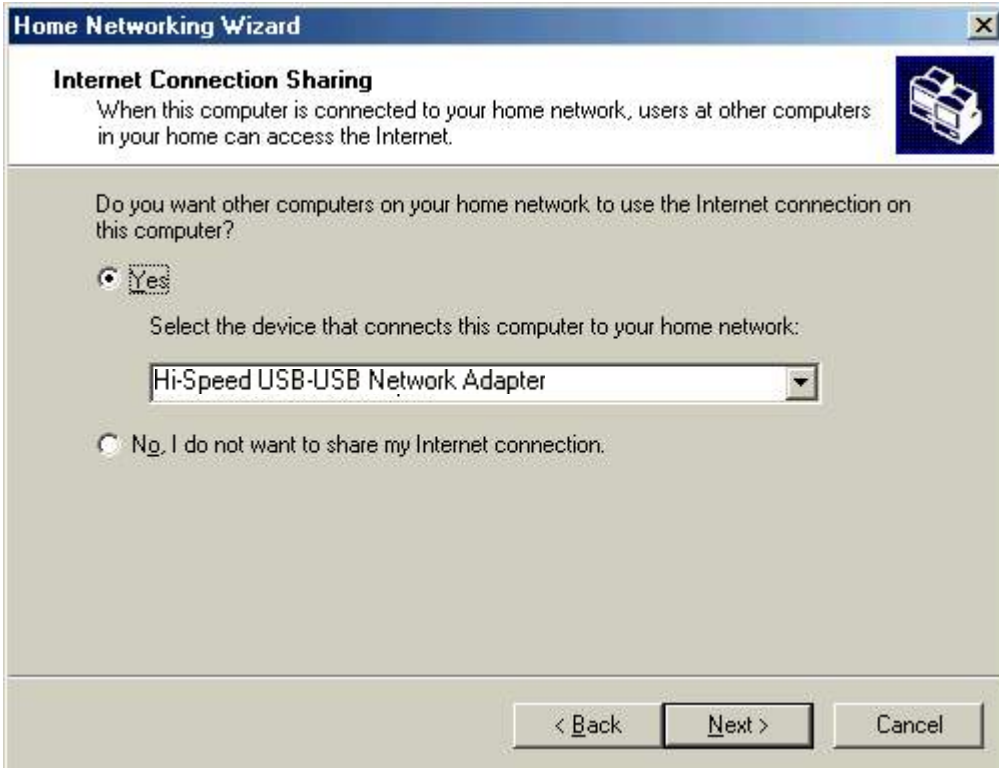
☒ A direct connection to my ISP using the following device:

Realtek RTL8139(A) PCI Fast Ethernet Adapter

☐ No, this computer does not use the Internet.

< Back Next > Cancel

8. Click “Next”



The screenshot shows the 'Home Networking Wizard' window with the 'Internet Connection Sharing' tab selected. The window title is 'Home Networking Wizard'. Below the title bar, there's a sub-header 'Internet Connection Sharing' and a descriptive text: 'When this computer is connected to your home network, users at other computers in your home can access the Internet.' To the right of this text is a small icon of a computer with a network cable. The main area contains the question 'Do you want other computers on your home network to use the Internet connection on this computer?' followed by two radio button options. The first option, 'Yes', is selected. Below it, there's a text prompt 'Select the device that connects this computer to your home network:' and a dropdown menu showing 'Hi-Speed USB-USB Network Adapter'. The second radio button option is 'No, I do not want to share my Internet connection.' At the bottom right, there are three buttons: '< Back', 'Next >', and 'Cancel'.

Home Networking Wizard

Internet Connection Sharing
When this computer is connected to your home network, users at other computers in your home can access the Internet.

Do you want other computers on your home network to use the Internet connection on this computer?

☒ Yes

Select the device that connects this computer to your home network:

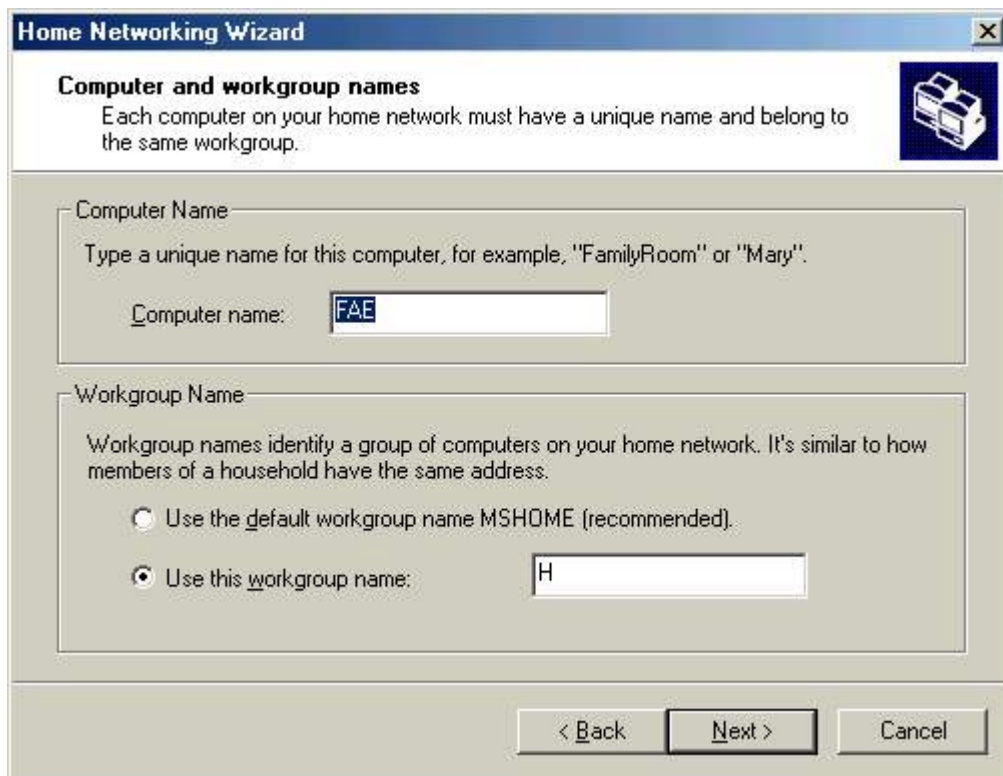
Hi-Speed USB-USB Network Adapter

☐ No, I do not want to share my Internet connection.

< Back Next > Cancel

USER MANUAL for USB2.0 Data Link/Network

9. Click “Next”



Home Networking Wizard

Computer and workgroup names

Each computer on your home network must have a unique name and belong to the same workgroup.

Computer Name

Type a unique name for this computer, for example, "FamilyRoom" or "Mary".

Computer name:

Workgroup Name

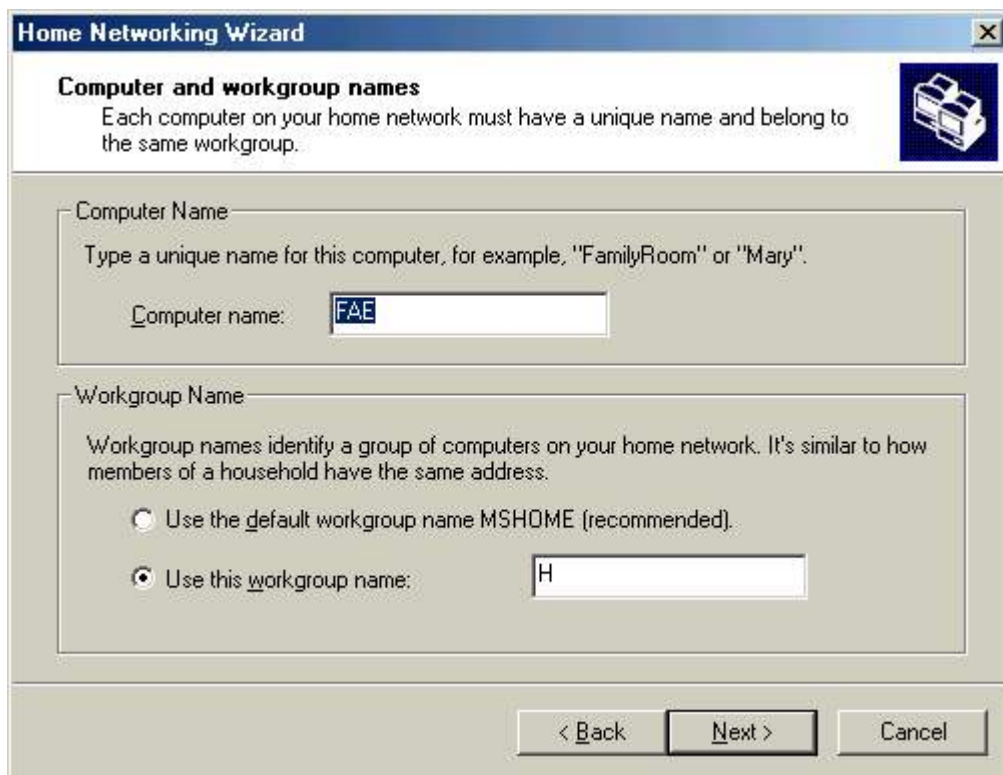
Workgroup names identify a group of computers on your home network. It's similar to how members of a household have the same address.

☐ Use the default workgroup name MSHOME (recommended).

☒ Use this workgroup name:

< Back Next > Cancel

10. Click “Next”



Home Networking Wizard

Computer and workgroup names

Each computer on your home network must have a unique name and belong to the same workgroup.

Computer Name

Type a unique name for this computer, for example, "FamilyRoom" or "Mary".

Computer name:

Workgroup Name

Workgroup names identify a group of computers on your home network. It's similar to how members of a household have the same address.

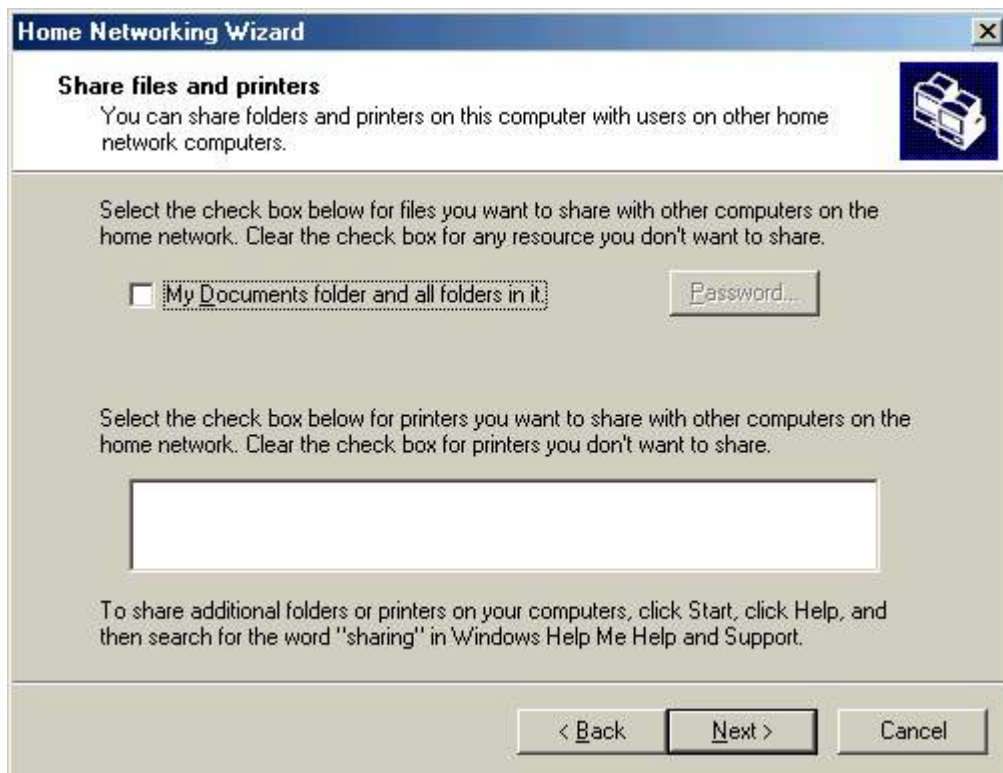
☐ Use the default workgroup name MSHOME (recommended).

☒ Use this workgroup name:

< Back Next > Cancel

USER MANUAL for USB2.0 Data Link/Network

11. Click "Next"



12. Choose "No, do not create a Home networking Setup disk." ,Click "Next"

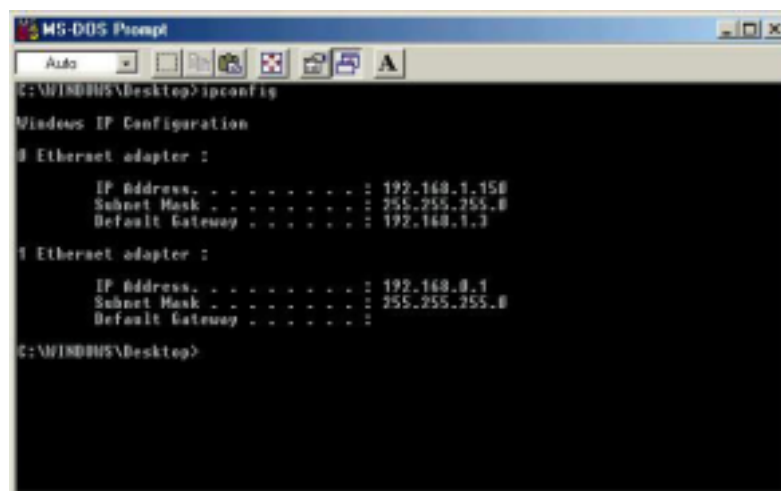


USER MANUAL for USB2.0 Data Link/Network

13. Click "Finish"



14. Use windows command prompt : "IPCONFIG" to check the connection status.



15. Other PC only connect cable (you don't setup IP Address)

16. Finish

Note : General Internet setting for Peer-to-peer internet connection sharing

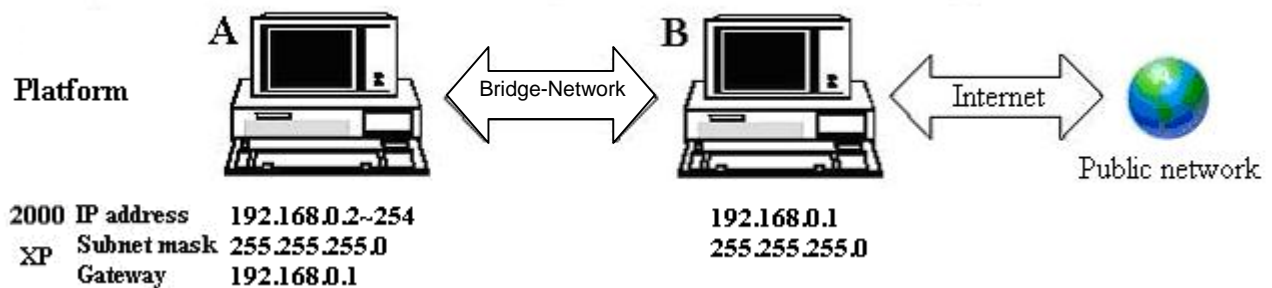
- User must be logged on as an administrator or a member of the Administrators group in order to complete this procedure.
- Under **Internet Connection Sharing**, in **Home networking connection**, select any adapter that connects the computer sharing its Internet connection to the other computers on user's network.
- When user runs the **Network Setup Wizard** and enables **Internet Connection Sharing**, certain protocols, services, interfaces, and routes are configured automatically. The following describes these configured items.

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Configured item	Action
IP address 192.168.0.1	Configured with a subnet mask of 255.255.255.0 on the LAN adapter that is connected to the home or small office network.
Autodial feature	Enabled.
Static default IP route	Created when the dial-up connection is established.
Internet Connection Sharing service	Started.
DHCP allocator	Enabled with the default range of 192.168.0.1 and a subnet mask of 255.255.255.0. Unique addresses in the range 192.168.0.2 to 192.168.0.254 are allocated to private network clients.
DNS proxy	Enabled.

If users are enabling Internet Connection Sharing on a LAN connection, TCP/IP for the LAN interface that is connected to the Internet must be configured with a default gateway. The TCP/IP addressing for this interface may be a static address or dynamic addressing using DHCP.

For example :



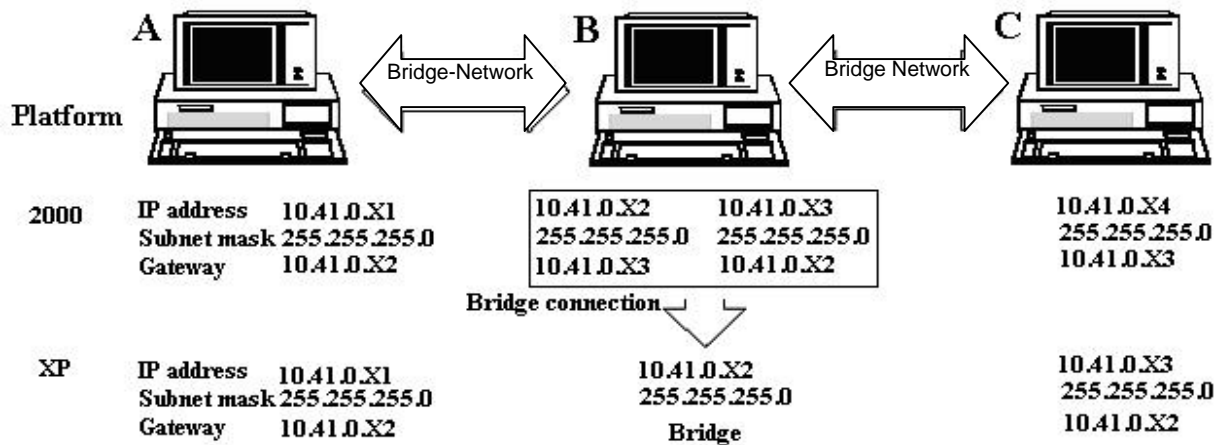
- d) To enable Internet Connection Sharing (ICS) Discovery and Control on Windows 98, Windows 98 SE, and Windows Millennium Edition computers, run the **Network Setup Wizard** from the CD or floppy disk on these computers.
- e) For ICS Discovery and Control to work on Windows 98, Windows 98 Second Edition, and Windows Millennium Edition computers, Internet Explorer version 5.0 or later must be installed.
- f) **Internet Connection Sharing is not available on Windows XP 64-Bit Edition.**

5. Three or more computers share in internet resource with Bridge-Network connection.
(Bridge-computers are for Windows XP only, other local computers are for Windows98/ME/2K/XP)

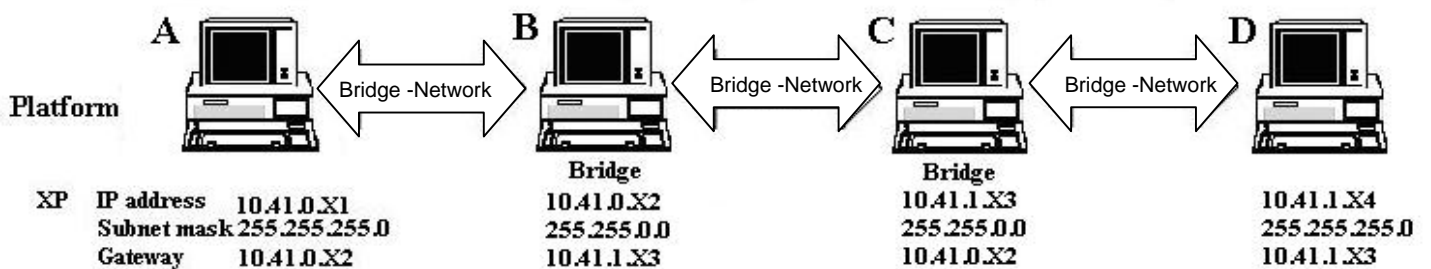
Setup Bridge-computer which is connected 2 or more local connections of Bridge-Network.

For example:

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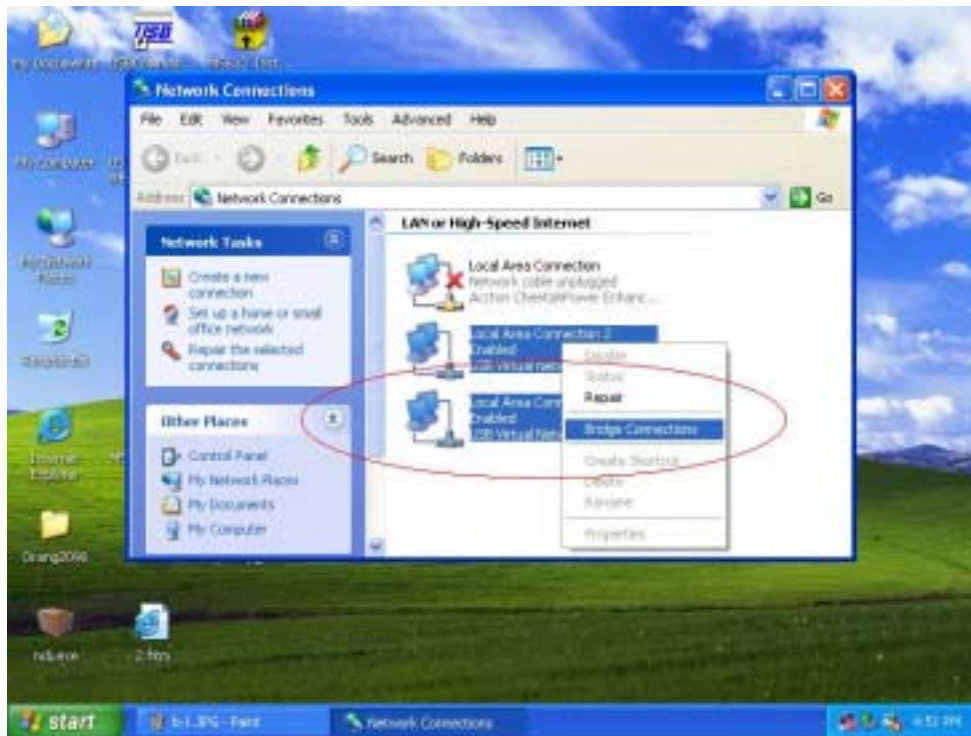


To stride across



- (1) User can find 2 or more Bridge-Network connections in the bridge computers.
- (2) Open Network Connections (Click Start, click Control Panel, click Network and Internet Connections, and then click Network Connections). Under LAN or High-Speed Internet select each of the private network connections that you want to be part of the bridge. Right-click one of the highlighted private network connections, and then click Bridge Connections.

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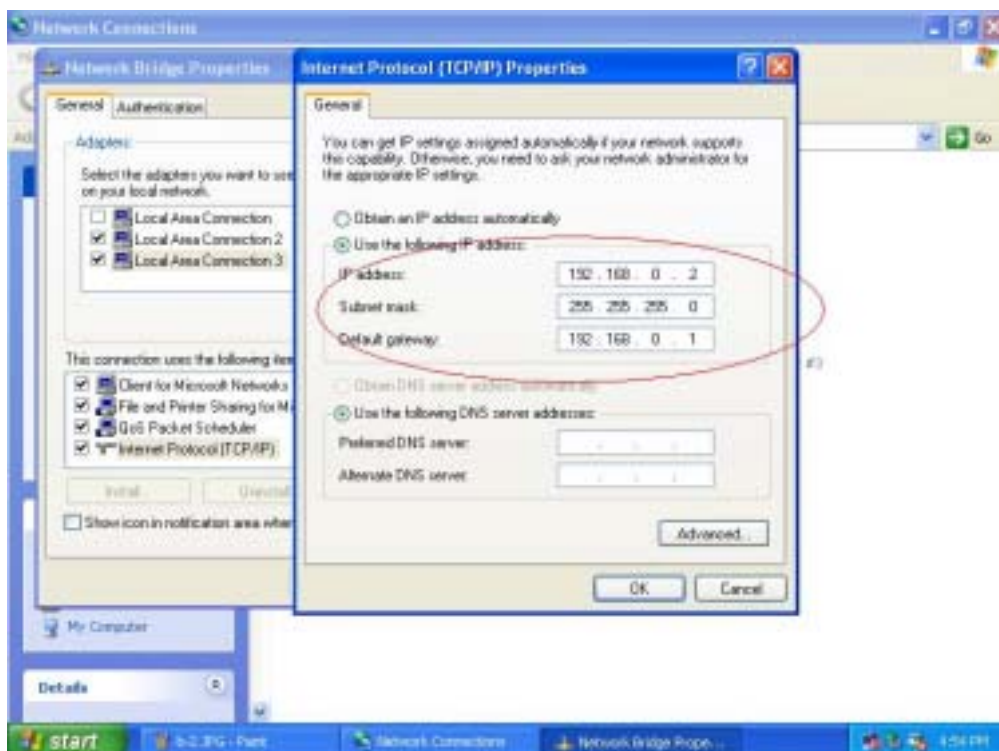


- (3) IP address setting is same as Peer-to-peer Internet resource sharing. User have to manual fill into correctly value of bridge connection :

IP address : 192.168.0.x

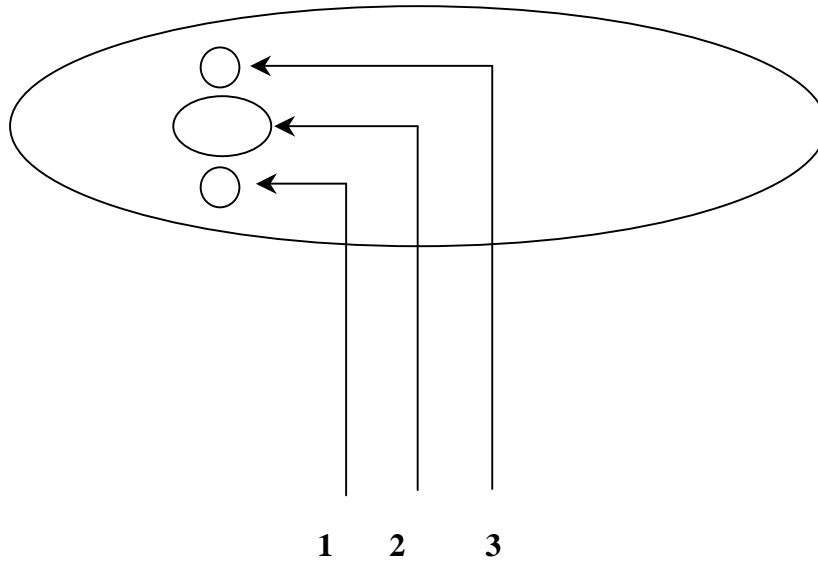
Subnet mask : 255.255.255.x

Default gateway : 192.168.0.1



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Indicate light and switching button



1. Power Light : When you connect USB cable ,it's to show Green light.
2. Switching Button mode : Press Down is USB2.0 Data-Link function mode
UP is Bridge-Network function mode
3. Action Light :When device is working ,it's to flash Yellow light .